Biology of the Cell, **63** (1988) 371–372
© Elsevier, Paris

AUTHOR INDEX

A

Adam J U — *See* Sugrue P *et al*, 127
Akbarieh M — *See* Denis G *et al*, 335
Akhavan-Niaki H — *See* Wright M *et al*, 239
Albertini C — *See* Wright M *et al*, 239
Alliot F & Pessac B, Macrophages express glial markers, 109
Amorim A — *See* Sousa M *et al*, 101
Andrivon C, Membrane control of ciliary movement in Ciliates, 133
Azevedo C — *See* Sousa M *et al*, 101

B

Baffet G — *See* Bégué J-M *et al*, 327
Bautista-Harris G — *See* Sandoz D *et al*, 183
Benhamou N — *See* Grandmaison J *et al*, 89
Bergeron M — *See* Denis G *et al*, 335
Berman S A — *See* Bursztajn S *et al*, 57
Berry J P — *See* Levi-Setti R *et al*, 77
Betrencourt C — *See* Marano F *et al*, 143
Bégué J-M, Baffet G, Campion J-P & Guillouzo A, Differential response of primary cultures of human and rat hepatocytes to aflatoxin B1 - induced cytotoxicity and protection by the hepatoprotective agent (+)-cyanidanol-3, 327
Bés J-C — *See* Perona R *et al*, 361
Blair L A C — *See* Godefroy O *et al*, 41
Boisvieux-Ulrich E — *See* Sandoz D *et al*, 183 — *See* Lemullois M *et al*, 195
Brossard C — *See* Fiszer-Szafarz B *et al*, 355
Brown D L — *See* Chaly N *et al*, 9
Bursztajn S, Schneider L W, Yuh-Jin Jong & Berman S A, Phorbol esters inhibit the synthesis of acetylcholine receptors in cultured muscle cells, 57

C

Cachon J — *** *See* Cosson J *et al*, 117 — *** *See* Cachon M *et al*, 159 — ***, Cachon M , Cosson M-P & Cosson J, The paraflagellar rod : a structure in search of a function, 169
Cachon M — *** & Cosson M P, Ciliary and flagellar apparatuses and their associated structures, 115 — *** *See* Cosson J *et al*, 117 — ***, Cosson J, Cosson M-P, Huitorel P & Cachon J, Ultrastructure of the flagellar apparatus of *Oxyrrhis marina*, 159 — ***See Cachon J *et al*, 169
Cadrin M — *See* Chaly N *et al*, 9
Campion J-P — *See* Bégué J-M *et al*, 327
Cataldo C, Souchier C & Stahl A, Three-dimensional ultrastructure and quantitative analysis of the human Sertoli cell nucleolus, 277
Chabala J M — *See* Levi-Setti R*et al*, 77
Chailley B — *See* Sandoz D *et al*, 183 — *See* Lemullois M *et al*, 195
Chaly N, Cadrin M, Kaplan J G & Brown D L, Modulation of lymphocyte nuclear matrix organization *in vivo* by 5,6-dichloro-1-b-D-ribofuranosyl benzimidazole : an autoradiographic and immunofluorescence study, 9
Chillet D — *See* Wolff A *et al*, 319
Collin O, Thomas D, Flifla M, Quintana C & Gouranton J, Characterization of a ferritin isolated from the midgut epithelial cells of a homopteran insect, *Philaenus spumarius* L., 297
Cosson J — ***, Cachon M, Cachon J & Cosson M-P, Swimming behaviour of the unicellular biflagellate *Oxyrrhis marina : in vivo* and *in vitro* movement of the two flagella, 117 — *** *See* Cachon M *et al*, 159 — *** *See* Cachon J *et al*, 169
Cosson M-P — *See* Cachon M, 115 — *See* Cosson J *et al*, 117 — *See* Cachon M *et al*, 159 — *See* Cachon J *et al*, 169
Cuenca J B — *See* Pérez-Alonso M *et al*, 269

D

De Boni U, Chromatin and nuclear envelope of freeze-fractured, neuronal interphase nuclei, resolved by scanning electron microscopy, 1
De Frutos R — *See* Pérez-Alonso M *et al*, 269
Delongeas J-L — *See* Leheup B P *et al*, 83
Denefle J-P, Lechaire J-P & Zhu Q-L, Skin cultured with or without an Nacl gradient and aldosterone influence epidermal fibronectin localizations, 105
Denis G, Akbarieh M & Bergeron M, Vasopressin modifies osmium impregnation of the endoplasmic reticulum in cultured kidney collecting duct cells, 335
Dodeur M — *See* Slama A*et al*, 367
Ducommun B — *See* Wright M *et al*, 239

F

Feger J — *See* Slama A *et al*, 367
Fiszer-Szafarz B, Rommain M, Brossard C & Smets P, Hyaluronic acid-degrading enzymes in rat alveolar macrophages and in alveolar fluid : stimulation of enzyme activity after oral treatment with the immunomodulator RU 41740, 355
Flifla M — *See* Colin O *et al*, 297
Furlan V — *See* Grandmaison J *et al*, 89

G

Galle P — *See* Levi-Setti R *et al*, 77
Gelly J-L — *See* Leheup B P *et al*, 83
Gely C — *See* Wright M *et al*, 239
Genermont J, Hereditary variation of ciliary patterns in ciliated protozoa, 209
Godefroy O, Huet C, Blair L A C, Sahuquillo-Merino C & Louvard D, Differentiation of a clone isolated from the HT29 cell line : polarized distribution of histocompatibility antigens (HLA) and of transferrin receptors, 41
Goessens G — *See* Thiry M *et al*, 27
Gouranton J — *See* Colin O *et al*, 297
Grain J, Mignot J-P & de Puytorac P, Ultrastructures and evolutionary modalities of flagellar and ciliary systems in protists, 219
Grandmaison J, Benhamou N, Furlan V & Visser S A, Ultrastructural localization of *N*-acetylglucosamine residues in the cell wall of *Gigaspora margarita* throughout its life-cycle, 89
Grignon G — *See* Leheup B P *et al*, 83
Grondin G — *See* Lebel D *et al*, 343
Gros F — *See* Wolff A *et al*, 319
Guillouzo A — *See* Bégué J-M *et al*, 327

H

Hirons M R — *See* Sugrue P *et al*, 127
Holwill M E J — *See* Sugrue P *et al*, 127
Huet C — *See* Godefroy O *et al*, 41
Huitorel P, From cilia and flagella to intracellular motility and back again : a review of a few aspects of microtubule-based motility, 249
— *** *See* Cachon M *et al*, 159

K

Kaplan J G — *See* Chaly N *et al*, 9
Krishnaswamy S — *See* Marano F *et al*, 143

L

Laine M-C — *See* Sandoz D *et al*, 183 — *See* Lemullois M *et al*, 195
Lebel D, Grondin G & Paquette J, *In vitro* stability of pancreatic zymogen granules : roles of pH and calcium, 343
Lechaire J-P — *See* Denefle J-P *et al*, 105
Leheup B P, Gelly J-L, Delongeas J-L & Grignon G, Anionic sites of the basement membrane of rat seminiferous tubules during ontogenesis, 83
Lemullois M — *** *See* Sandoz D *et al*, 183 — ***, Boisvieux-Ulrich E, Laine M-C, Chailley B & Sandoz D, Development and functions of the cytoskeleton during ciliogenesis in metazoa, 195
Levi-Setti R, Berry J P, Chabala J M & Galle P, Selective intracellular beryllium localization in rat tissue by mass-resolved ion microprobe imaging, 77
Louvard D — *See* Godefroy O *et al*, 41

M

Marano F, Krishnaswamy S, Betrencourt C, Schoevaer D, Provost J-M & Volochine B, Control of ciliary beat by calcium : the effects of lindane, a potent insecticide, 143
Mattei X, The flagellar apparatus of spermatozoa in fish. Ultrastructure and evolution, 151
Mignot J-P — *See* Grain J *et al*, 219
Mir L — *See* Wright M *et al*, 239
Moisand A — *See* Wright M *et al*, 239
Moradas Ferreira P — *See* Sousa M *et al* 101

N

Nechaud B (de) — *See* Wolff A *et al*, 319

O

Oustrin M-L — *See* Wright M *et al*, 239

P

Paquette J — *See* Lebel D *et al*, 343
Perona R, Bés J-C & Vallejo C G, Degradation of yolk in the brine shrimp *Artemia*. Biochemical and morphological studies on the involvement of the lysosomal system, 361
Pessac B — *See* Alliot F, 109
Pérez-Alonso M, Cuenca J B & De Frutos R, Electron microscope analysis of the E polytene chromosome of *Drosophila subobscura* region : 70B to 72D, 269
Planques V — *See* Wright M *et al*, 239
Pochet R — *See* Resibois A *et al*, 67
Provost J-M — *See* Marano F *et al*, 143
Puytorac P (de) — *See* Grain J *et al*, 219

Q

Quintana C — *See* Colin O *et al*, 297

R

Resibois A, Vienne G & Pochet R, Calbindin-D28K and the peptidergic neuroendocrine system in rat gut : an immunohistochemical study, 67
Romijn H J, Development and advantages of serum-free, chemically defined nutrient media for culturing nerve tissue, 263
Rommain M — *See* Fiszer-Szafarz B *et al*, 355

S

Sahuquillo-Merino C — *See* Godefroy O *et al*, 41
Saito T & Yamaguchi J, Enucleation of phagocytic cells with adenine, guanine, and their nucleosides in combination with centrifugation, 287
Salles I — *See* Wright M *et al*, 239
Sandoz D, ***, Chailley B, Boisvieux-Ulrich E, Lemullois M, Laine M-C & Bautista-Harris G, Organization and functions of cytoskeleton in metazoan ciliated cells, 183 — *** *See* Lemullois M *et al*, 195
Sato S, Incorporation of argyrophilic proteins into the nucleolus-associated chromatin caused by exposure to actinomycin D, 19
Scheer U — *See* Thiry M *et al*, 27
Schneider L W — *See* Bursztajn S *et al*, 57
Schoevaert D — *See* Marano F *et al*, 143
Slama A, Zinbi H, Feger J & Dodeur M, Comparative determination of the asialoglycoprotein receptor by ligand and antibody binding in hepatocytes from normal and diabetic rats, 367
Smets P — *See* Fiszer-Szafarz B *et al*, 355
Souchier C — *See* Cataldo C *et al*, 277
Sousa M, Moradas Ferreira P, Amorim A & Azevedo C, Starfish acrosomal acid phosphatase : a cytochemical and biochemical study, 101
Stahl A — *See* Cataldo C *et al*, 277
Standiford D M, The development of a large nucleolus during oogenesis in *Acanthocyclops vernalis* (Crustacea, Copepoda) and its possible relationship to chromatin diminution, 35
Sugrue P, Hirons M R, Adam J U & Holwill M E J, Flagellar wave reversal in the kinetoplastid flagellate *Crithidia oncopelti*, 127

T

Thiry M, Scheer U & Goessens G, Localization of DNA within Ehrlich tumour cell nucleoli by immunoelectron microscopy, 27
Thomas D — *See* Colin O *et al*, 297

V

Vallejo C G — *See* Perona R *et al*, 361
Vienne G — *See* Resibois A *et al*, 67
Visser S A — *See* Grandmaison J *et al*, 89
Volochine B — *See* Marano F *et al*, 143

W

Weller N K, A 70 kDa microtubule-associated protein in NIL8 cells comigrates with the 70 kDa heat shock protein, 307
Wolff A, Nechaud B (de), Chillet D & Gros F, The aminoterminal domain of alpha-tubulin probed by monoclonal antibodies. Recognition of a rarely exposed epitope by the monoclonal antibody 111 B52 C2, 319
Wright M, Albertini C, Planques V, Salles I, Ducommun B, Gely C, Akhavan-Niaki H, Mir L, Moisand A & Oustrin M-L, Microtubule cytoskeleton and morphogenesis in the amoebae of the myxomycete *Physarum polycephalum*, 239

Y

Yamaguchi J — *See* Saito T, 287
Yuh-Jin Jong — *See* Bursztajn S *et al*, 57

Z

Zhu Q-L — *See* Denefle J-P *et al*, 105
Zinbi H — *See* Slama A *et al*, 367

Biology of the Cell, **63** (1988) 373–375
© Elsevier, Paris

SUBJECT INDEX

A

Acetylcholine receptors. Phorbol esters inhibit the synthesis of acetylcholine receptors in cultured muscle cells, 57

AChR synthesis. Phorbol esters inhibit the synthesis of acetylcholine receptors in cultured muscle cells, 57

Acid phosphatase. Starfish acrosomal acid phosphatase : a cytochemical and biochemical study, 101

Acrosome. Starfish acrosomal acid phosphatase : a cytochemical and biochemical study, 101

Actinomycin D. Incorporation of argyrophilic proteins into the nucleolus-associated chromatin caused by exposure to actinomycin D, 19

Aflatoxin B1. Differential response of primary cultures of human and rat hepatocytes to aflatoxin B1 - induced cytotoxicity and protection by the hepatoprotective agent (+)-cyanidanol-3, 327

Aldosterone. Skin cultured with or without an Nacl gradient and aldosterone influence epidermal fibronectin localizations, 105

Alveolar macrophages. Hyaluronic acid-degrading enzymes in rat alveolar macrophages and in alveolar fluid : stimulation of enzyme activity after oral treatment with the immunomodulator RU 41740, 355

Anionic sites. Anionic sites of the basement membrane of rat seminiferous tubules during ontogenesis, 83

Artemia. Degradation of yolk in the brine shrimp *Artemia.* Biochemical and morphological studies on the involvement of the lysosomal system, 361

Asialoglycoprotein-receptor. Comparative determination of the asialoglycoprotein receptor by ligand and antibody binding in hepatocytes from normal and diabetic rats, 367

Asteroidea. Starfish acrosomal acid phosphatase : a cytochemical and biochemical study, 101

Astrocytes. Macrophages express glial markers, 109

Axonemal polymerization. Development and functions of the cytoskeleton during ciliogenesis in metazoa, 195

B

Banding patterns. Electron microscope analysis of the E polytene chromosome of *Drosophila subobscura* region : 70B to 72D, 269

Basement membrane. Anionic sites of the basement membrane of rat seminiferous tubules during ontogenesis, 83

Beryllium localization. Selective intracellular beryllium localization in rat tissue by mass-resolved ion microprobe imaging, 77

Beryllium toxicology. Selective intracellular beryllium localization in rat tissue by mass-resolved ion microprobe imaging, 77

Biochemical and morphological studies. Degradation of yolk in the brine shrimp *Artemia.* Biochemical and morphological studies on the involvement of the lysosomal system, 361

Bronchial mucus. Hyaluronic acid-degrading enzymes in rat alveolar macrophages and in alveolar fluid : stimulation of enzyme activity after oral treatment with the immunomodulator RU 41740, 355

C

Calbindin-D28K. Calbindin-D28K and the peptidergic neuroendocrine system in rat gut : an immunohistochemical study, 67

Calcium. Flagellar wave reversal in the kinetoplastid flagellate *Crithidia oncopelti*, 127

Calcium regulation of ciliary beat. Control of ciliary beat by calcium : the effects of lindane, a potent insecticide, 143

Cell maturation. Vasopressin modifies osmium impregnation of the endoplasmic reticulum in cultured kidney collecting duct cells, 335

Cell polarity. Differentiation of a clone isolated from the HT29 cell line : polarized distribution of histocompatibility antigens (HLA) and of transferrin receptors, 41

Centrifugation. Enucleation of phagocytic cells with adenine, guanine, and their nucleosides in combination with centrifugation, 287

Centriole migration. Development and functions of the cytoskeleton during ciliogenesis in metazoa, 195

Chitin. Ultrastructural localization of *N*-acetylglucosamine residues in the cell wall of *Gigaspora margarita* throughout its life-cycle, 89

Chromatin. Chromatin and nuclear envelope of freeze-fractured, neuronal interphase nuclei, resolved by scanning electron microscopy, 1

Chromatin diminution. The development of a large nucleolus during oogenesis in *Acanthocyclops vernalis* (Crustacea, Copepoda) and its possible relationship to chromatin diminution, 35

Ciliary and flagellar apparatuses. Ciliary and flagellar apparatuses and their associated structures, 115

Ciliary membrane. Membrane control of ciliary movement in Ciliates, 133

Ciliary movement. Membrane control of ciliary movement in Ciliates, 133

Ciliary system. Ultrastructures and evolutionary modalities of flagellar and ciliary systems in protists, 219

Ciliated cells. Organization and functions of cytoskeleton in metazoan ciliated cells, 183

Ciliates. Hereditary variation of ciliary patterns in ciliated protozoa, 209

Ciliature pattern. Hereditary variation of ciliary patterns in ciliated protozoa, 209

Cilio-inhibition. Control of ciliary beat by calcium : the effects of lindane, a potent insecticide, 143

Ciliogenesis. Development and functions of the cytoskeleton during ciliogenesis in metazoa, 195

Copepods. The development of a large nucleolus during oogenesis in *Acanthocyclops vernalis* (Crustacea, Copepoda) and its possible relationship to chromatin diminution, 35

Culture. Skin cultured with or without an Nacl gradient and aldosterone influence epidermal fibronectin localizations, 105

Cultured hepatocytes. Differential response of primary cultures of human and rat hepatocytes to aflatoxin B1 - induced cytotoxicity and protection by the hepatoprotective agent (+)-cyanidanol-3, 327

(+)-Cyanidanol-3. Differential response of primary cultures of human and rat hepatocytes to aflatoxin B1 - induced cytotoxicity and protection by the hepatoprotective agent (+)-cyanidanol-3, 327

Cytochemical staining. Degradation of yolk in the brine shrimp *Artemia.* Biochemical and morphological studies on the involvement of the lysosomal system, 361

Cytokeratin. Organization and functions of cytoskeleton in metazoan ciliated cells, 183

Cytoskeleton. Organization and functions of cytoskeleton in metazoan ciliated cells, 183 — Development and functions of the cytoskeleton during ciliogenesis in metazoa, 195 — Microtubule cytoskeleton and morphogenesis in the amoebae of the myxomycete *Physarum polycephalum*, 239 — Enucleation of phagocytic cells with adenine, guanine, and their nucleosides in combination with centrifugation, 287

Cytotoxicity. Differential response of primary cultures of human and rat hepatocytes to aflatoxin B1 - induced cytotoxicity and protection by the hepatoprotective agent (+)-cyanidanol-3, 327

D

Diabetes. Comparative determination of the asialoglycoprotein receptor by ligand and antibody binding in hepatocytes from normal and diabetic rats, 367
Differentiation. Anionic sites of the basement membrane of rat seminiferous tubules during ontogenesis, 83
3-Dimensional reconstruction. Three-dimensional ultrastructure and quantitative analysis of the human Sertoli cell nucleolus, 277
DNA. Localization of DNA within Ehrlich tumour cell nucleoli by immunoelectron microscopy, 27
Drosophila subobscura. Electron microscope analysis of the E polytene chromosome of *Drosophila subobscura* region : 70B to 72D, 269
Dynein. From cilia and flagella to intracellular motility and back again : a review of a few aspects of microtubule-based motility, 249

E

Endocrine cells. Calbindin-D28K and the peptidergic neuroendocrine system in rat gut : an immunohistochemical study, 67
Endoplasmic reticulum. Vasopressin modifies osmium impregnation of the endoplasmic reticulum in cultured kidney collecting duct cells, 335
Enteric neurons. Calbindin-D28K and the peptidergic neuroendocrine system in rat gut : an immunohistochemical study, 67
Enucleation. Enucleation of phagocytic cells with adenine, guanine, and their nucleosides in combination with centrifugation, 287
Epitope location. The aminoterminal domain of alpha-tubulin probed by monoclonal antibodies. Recognition of a rarely exposed epitope by the monoclonal antibody 111 B52 C2, 319
Exocrine. *In vitro* stability of pancreatic zymogen granules : roles of pH and calcium, 343

F

Ferritin. Characterization of a ferritin isolated from the midgut epithelial cells of a homopteran insect, *Philaenus spumarius* L., 297
Fibrillar center. Three-dimensional ultrastructure and quantitative analysis of the human Sertoli cell nucleolus, 277
Fibroblasts. A 70 kDa microtubule-associated protein in NIL8 cells comigrates with the 70 kDa heat shock protein, 307
Fibronectin. Skin cultured with or without an Nacl gradient and aldosterone influence epidermal fibronectin localizations, 105
2—4-nm Filaments. Ultrastructure of the flagellar apparatus of *Oxyrrhis marina*, 159 — The paraflagellar rod : a structure in search of a function, 169
Fish. The flagellar apparatus of spermatozoa in fish. Ultrastructure and evolution, 151
Flagella. Flagellar wave reversal in the kinetoplastid flagellate *Crithidia oncopelti*, 127
Flagella ultrastructure. Ultrastructures and evolutionary modalities of flagellar and ciliary systems in protists, 219
Flagellar movement. Swimming behaviour of the unicellular biflagellate *Oxyrrhis marina : in vivo* and *in vitro* movement of the two flagella, 117
Flagellar ultrastructure. Ultrastructure of the flagellar apparatus of *Oxyrrhis marina*, 159
Frequency. Flagellar wave reversal in the kinetoplastid flagellate *Crithidia oncopelti*, 127

G

Gigaspora margarita. Ultrastructural localization of *N*-acetylglucosamine residues in the cell wall of *Gigaspora margarita* throughout its life-cycle, 89
Glia. Macrophages express glial markers, 109

H

Heat-shock protein 70. A 70 kDa microtubule-associated protein in NIL8 cells comigrates with the 70 kDa heat shock protein, 307
Hepatocytes. Comparative determination of the asialoglycoprotein receptor by ligand and antibody binding in hepatocytes from normal and diabetic rats, 367
HLA. Differentiation of a clone isolated from the HT29 cell line : polarized distribution of histocompatibility antigens (HLA) and of transferrin receptors, 41
HT29 cell line. Differentiation of a clone isolated from the HT29 cell line : polarized distribution of histocompatibility antigens (HLA) and of transferrin receptors, 41
Human Sertoli cell. Three-dimensional ultrastructure and quantitative analysis of the human Sertoli cell nucleolus, 277
Hyaluronic acid-degrading enzymes. Hyaluronic acid-degrading enzymes in rat alveolar macrophages and in alveolar fluid : stimulation of enzyme activity after oral treatment with the immunomodulator RU 41740, 355
Hypotonic swelling. *See* Chromatin and nuclear envelope of freeze-fractured, neuronal interphase nuclei, resolved by scanning electron microscopy, 1

I

[^{125}I] aBTX. Phorbol esters inhibit the synthesis of acetylcholine receptors in cultured muscle cells, 57
Immunohistochemistry. Calbindin-D28K and the peptidergic neuroendocrine system in rat gut : an immunohistochemical study, 67
Immunomodulator RU 41740. Hyaluronic acid-degrading enzymes in rat alveolar macrophages and in alveolar fluid : stimulation of enzyme activity after oral treatment with the immunomodulator RU 41740, 355
***In situ* hybridization.** The development of a large nucleolus during oogenesis in *Acanthocyclops vernalis* (Crustacea, Copepoda) and its possible relationship to chromatin diminution, 35
Inhibition of transcription. Modulation of lymphocyte nuclear matrix organization *in vivo* by 5,6-dichloro-1-b-D-ribofuranosyl benzimidazole : an autoradiographic and immunofluorescence study, 9
Insect. Characterization of a ferritin isolated from the midgut epithelial cells of a homopteran insect, *Philaenus spumarius* L., 297
Intestine. Differentiation of a clone isolated from the HT29 cell line : polarized distribution of histocompatibility antigens (HLA) and of transferrin receptors, 41

K

Kinesin. From cilia and flagella to intracellular motility and back again : a review of a few aspects of microtubule-based motility, 249

L

Laser doppler velocimetry. Control of ciliary beat by calcium : the effects of lindane, a potent insecticide, 143
Limited enzymatic proteolysis. The aminoterminal domain of alpha-tubulin probed by monoclonal antibodies. Recognition of a rarely exposed epitope by the monoclonal antibody 111 B52 C2, 319
Lymphocyte stimulation. Modulation of lymphocyte nuclear matrix organization *in vivo* by 5,6-dichloro-1-b-D-ribofuranosyl benzimidazole : an autoradiographic and immunofluorescence study, 9
Lysosomal involvement. Degradation of yolk in the brine shrimp *Artemia*. Biochemical and morphological studies on the involvement of the lysosomal system, 361

M

Macrophages. Macrophages express glial markers, 109 — Enucleation of phagocytic cells with adenine, guanine, and their nucleosides in combination with centrifugation, 287
Microfilaments. Organization and functions of cytoskeleton in metazoan ciliated cells, 183 — Microtubule cytoskeleton and morphogenesis in the amoebae of the myxomycete *Physarum polycephalum*, 239
Microtubules. Organization and functions of cytoskeleton in metazoan ciliated cells, 183 — Microtubule cytoskeleton and morphogenesis in the amoebae of the myxomycete *Physarum polycephalum*, 239 — From cilia and flagella to intracellular motility and back again : a review of a few aspects of microtubule-based motility, 249 — A 70 kDa microtubule-associated protein in NIL8 cells comigrates with the 70 kDa heat shock protein, 307
Molecular characterization. Characterization of a ferritin isolated from the midgut epithelial cells of a homopteran insect, *Philaenus spumarius* L., 297
Monoclonal antibody. Localization of DNA within Ehrlich tumour cell nucleoli by immunoelectron microscopy, 27
Morphogenesis. Microtubule cytoskeleton and morphogenesis in the amoebae of the myxomycete *Physarum polycephalum*, 239
Motility. From cilia and flagella to intracellular motility and back again : a review of a few aspects of microtubule-based motility, 249
Mouse. Macrophages express glial markers, 109
MRCs. Skin cultured with or without an Nacl gradient and aldosterone

N

N-acetylglucosamine. Ultrastructural localization of *N*-acetylglucosamine residues in the cell wall of *Gigaspora margarita* throughout its life-cycle, 89
NaCl. Skin cultured with or without an Nacl gradient and aldosterone influence epidermal fibronectin localizations, 105
Nuclear envelope. Chromatin and nuclear envelope of freeze-fractured, neuronal interphase nuclei, resolved by scanning electron microscopy, 1
Nuclear matrix. Modulation of lymphocyte nuclear matrix organization *in vivo* by 5,6-dichloro-1-b-D-ribofuranosyl benzimidazole : an autoradiographic and immunofluorescence study, 9
Nuclear structural reorganization. Modulation of lymphocyte nuclear matrix organization *in vivo* by 5,6-dichloro-1-b-D-ribofuranosyl benzimidazole : an autoradiographic and immunofluorescence study, 9
Nucleolus. Incorporation of argyrophilic proteins into the nucleolus-associated chromatin caused by exposure to actinomycin D, 19 — Localization of DNA within Ehrlich tumour cell nucleoli by immunoelectron microscopy, 27 — The development of a large nucleolus during oogenesis in *Acanthocyclops vernalis* (Crustacea, Copepoda) and its possible relationship to chromatin diminution, 35 — Three-dimensional ultrastructure and quantitative analysis of the human Sertoli cell nucleolus, 277
Nucleolus-associated chromatin. Incorporation of argyrophilic proteins into the nucleolus-associated chromatin caused by exposure to actinomycin D, 19
Nucleosomes. Chromatin and nuclear envelope of freeze-fractured, neuronal interphase nuclei, resolved by scanning electron microscopy, 1
Nutrient medium. Development and advantages of serum-free, chemically defined nutrient media for culturing nerve tissue, 263

O

Oligodendrocytes. Macrophages express glial markers, 109
Ontogeny. Ultrastructural localization of *N*-acetylglucosamine residues in the cell wall of *Gigaspora margarita* throughout its life-cycle, 89
Oogenesis. The development of a large nucleolus during oogenesis in *Acanthocyclops vernalis* (Crustacea, Copepoda) and its possible relationship to chromatin diminution, 35

P

Pancreas. *In vitro* stability of pancreatic zymogen granules : roles of pH and calcium, 343
Paraflagellar rod. Ultrastructure of the flagellar apparatus of *Oxyrrhis marina*, 159 — The paraflagellar rod : a structure in search of a function, 169
Permeabilization. Swimming behaviour of the unicellular biflagellate *Oxyrrhis marina : in vivo* and *in vitro* movement of the two flagella, 117
Phorbol esters. Phorbol esters inhibit the synthesis of acetylcholine receptors in cultured muscle cells, 57
Polytene chromosomes. Electron microscope analysis of the E polytene chromosome of *Drosophila subobscura* region : 70B to 72D, 269
Primary renal cell culture. Vasopressin modifies osmium impregnation of the endoplasmic reticulum in cultured kidney collecting duct cells, 335
Protists. Ciliary and flagellar apparatuses and their associated structures, 115 — Swimming behaviour of the unicellular biflagellate *Oxyrrhis marina : in vivo* and *in vitro* movement of the two flagella, 117 — The paraflagellar rod : a structure in search of a function, 169 — Ultrastructures and evolutionary modalities of flagellar and ciliary systems in protists, 219
Puffs. Electron microscope analysis of the E polytene chromosome of *Drosophila subobscura* region : 70B to 72D, 269
Purine compounds. Enucleation of phagocytic cells with adenine, guanine, and their nucleosides in combination with centrifugation, 287

R

Rat. Anionic sites of the basement membrane of rat seminiferous tubules during ontogenesis, 83
Rat gut. Calbindin-D28K and the peptidergic neuroendocrine system in rat gut : an immunohistochemical study, 67
rDNA. The development of a large nucleolus during oogenesis in *Acanthocyclops vernalis* (Crustacea, Copepoda) and its possible relationship to chromatin diminution, 35
Receptor-transductor functions. Membrane control of ciliary movement in Ciliates, 133
Renal collecting-duct epithelium. Vasopressin modifies osmium impregnation of the endoplasmic reticulum in cultured kidney collecting duct cells, 335

S

Scanning ion microscopy. Selective intracellular beryllium localization in rat tissue by mass-resolved ion microprobe imaging, 77
Secondary ion mass spectrometry. Selective intracellular beryllium localization in rat tissue by mass-resolved ion microprobe imaging, 77
Secretion granule. *In vitro* stability of pancreatic zymogen granules : roles of pH and calcium, 343
Seminiferous tubules. Anionic sites of the basement membrane of rat seminiferous tubules during ontogenesis, 83
Silver staining. Incorporation of argyrophilic proteins into the nucleolus-associated chromatin caused by exposure to actinomycin D, 19 — The development of a large nucleolus during oogenesis in *Acanthocyclops vernalis* (Crustacea, Copepoda) and its possible relationship to chromatin diminution, 35
snRNPs. Modulation of lymphocyte nuclear matrix organization *in vivo* by 5,6-dichloro-1-b-D-ribofuranosyl benzimidazole : an autoradiographic and immunofluorescence study, 9
Sperm flagella. The flagellar apparatus of spermatozoa in fish. Ultrastructure and evolution, 151

T

Transferrin receptor. Differentiation of a clone isolated from the HT29 cell line : polarized distribution of histocompatibility antigens (HLA) and of transferrin receptors, 41
Transport. From cilia and flagella to intracellular motility and back again : a review of a few aspects of microtubule-based motility, 249
a-Tubulin. The aminoterminal domain of alpha-tubulin probed by monoclonal antibodies. Recognition of a rarely exposed epitope by the monoclonal antibody 111 B52 C2, 319

U

Ultrastructural localization. Ultrastructural localization of *N*-acetylglucosamine residues in the cell wall of *Gigaspora margarita* throughout its life-cycle, 89
Ultrastructure. The flagellar apparatus of spermatozoa in fish. Ultrastructure and evolution, 151

V

Vasopressin. Vasopressin modifies osmium impregnation of the endoplasmic reticulum in cultured kidney collecting duct cells, 335
Ventral epidermis. Skin cultured with or without an Nacl gradient and aldosterone influence epidermal fibronectin localizations, 105
Vicia faba. Incorporation of argyrophilic proteins into the nucleolus-associated chromatin caused by exposure to actinomycin D, 19
Viscosity. Flagellar wave reversal in the kinetoplastid flagellate *Crithidia oncopelti*, 127

W

WGA/ovomucoid-gold. Ultrastructural localization of *N*-acetylglucosamine residues in the cell wall of *Gigaspora margarita* throughout its life-cycle, 89

Y

Yolk degradation. Degradation of yolk in the brine shrimp *Artemia*. Biochemical and morphological studies on the involvement of the lysosomal system, 361

Z

Zymogens. *In vitro* stability of pancreatic zymogen granules : roles of pH and calcium, 343